PATENT COOPERATION TREATY

rom the NTERNA	TIONAL SEAR	CHING AUTHO	RITY		_	REC'D 3 1	MAY 2005	
To:					PC	WIPO	Р	
see form PCT/ISA/220				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)				
				Date of mailing (day/month/year) see	o form PCT/ISA	/210 (second s	sheet)	
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below				
International application No. PCT/GB2005/000836			International filing date (04.03.2005	day/month/year) Priority date (day/month/year) 05.03.2004				
International Patent Classification (IPC) or both national classification and IPC H04L12/56								
Applicant XYRATEX TECHNOLOGY LIMITED								
This opinion contains indications relating to the following items:								
×	Box No. I	Basis of the op	pinion					
	Box No. II	Priority				alustrial appl	llochilihr	
	Box No. III		ment of opinion with reg	gard to novelty, inventi	ve step and ir	ioustriai appi	loadility	
	Box No. IV Box No. V	Reasoned state	f invention tement under Rule 43 <i>b.</i> itations and explanatior	is.1(a)(i) with regard to as supporting such stat	novelty, inve tement	ntive step or	industrial	
Г	Box No. VI	Certain docum						
			s in the international ap	plication				
☐ Box No. VIII Certain observations on the international application								
2. FURTHER ACTION								
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.								
s	201 مطف مخظ مسان،	EA a written rep date of mailing	ove, considered to be a ly together, where appl of Form PCT/ISA/220 o	ronriate with amenomi	enis, belole l	HA EYDII GUUI	01 (11) 00	
For further options, see Form PCT/ISA/220.								
3. F	3. For further details, see notes to Form PCT/ISA/220.							
	and mailing addro	C) 104		Authorized Officer			at Pilan.	

European Patent Office - P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016

Perez Perez, J

Telephone No. +31 70 340-3774



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2005/000836

	Вох	No. I	Basis of the opinion				
۱.	With the la	regaro angua	to the language , this opinion has been established on the basis of the international application in ge in which it was filed, unless otherwise indicated under this item.				
		langua	pinion has been established on the basis of a translation from the original language into the following ge , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).				
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
	a. type of material:						
] as	equence listing				
] tab	le(s) related to the sequence listing				
	b. format of material:						
	E	in י	written format				
] in (computer readable form				
	c. tir	ne of t	iling/furnishing:				
	C	□ со	ntained in the international application as filed.				
	C	□ file	d together with the international application in computer readable form.				
	0	□ fu	nished subsequently to this Authority for the purposes of search.				
3.	. 🖸	has b	dition, in the case that more than one version or copy of a sequence listing and/or table relating thereto een filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.				
4	. Additional comments:						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2005/000836

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

8-11,15-28,45-47

No: Claims

1-7,12-14,29-44

Inventive step (IS)

Yes: Claims

No: Claims

1-47

Industrial applicability (IA)

Yes: Claims

1-47

No: Claims

2. Citations and explanations

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1 Reference is made to the following documents:

D1: EP 0 717 532 A (IBM) 19 June 1996 (1996-06-19)

D2: SCHROEDER M D ET AL: "AUTONET: A HIGH-SPEED, SELF-CONFIGURING LOCAL AREA NETWORK USING POINT-TO-POINT LINKS" IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS, IEEE INC. NEW YORK, US, vol. 9, no. 8, 1 October 1991 (1991-10-01), pages 1318-1335, XP000267583 ISSN: 0733-8716

D3: Y. TURNER ET AL.: "An approach for congestion control in Infiniband"[Online] 14 May 2002 (2002-05-14), XP002314413 Retrieved from the Internet: URL:www.hpl.hp.com/techrepor.pdf>; [retrieved on 2005-01-20]

2 INDEPENDENT CLAIM 1

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

2.1 Document D1 discloses (the references in parentheses applying to this document):

A method of congestion management within a switch or network of connected switches wherein the or each of the switches has a plurality of ingress ports and a plurality of egress ports(abstract), the method comprising:

when congestion is detected at a first ingress or egress port, sending a message to an upstream port connected to the first ingress or egress port indicating that congestion has occurred at a particular port(col. 5, lines 40-47) and requesting storage at the upstream port of data packets destined for that port(claims 4,5); and

in dependence of the amount of data packets destined for the congested port stored

PCT/GB2005/000836

at said upstream port, sending from the upstream port to a further upstream port a message informing said further upstream port of the congestion at the congested port, said further upstream port storing at said further upstream port data packets destined for the congested port(col.6, lines 47-54).

2.2 Furthermore, document D2 discloses (the references in parentheses applying to this document):

A method of congestion management within a switch or network of connected switches wherein the or each of the switches has a plurality of ingress ports and a plurality of egress ports(figures 2,4), the method comprising:

when congestion is detected at a first ingress or egress port, sending a message to an upstream port connected to the first ingress or egress port indicating that congestion has occurred at a particular port and requesting storage at the upstream port of data packets destined for that port(page 1325, right-hand col. lines 18-34); and

in dependence of the amount of data packets destined for the congested port stored at said upstream port, sending from the upstream port to a further upstream port a message informing said further upstream port of the congestion at the congested port, said further upstream port storing at said further upstream port data packets destined for the congested port(page 1325, right-hand col., lines 35-47).

Therefore, the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

It should be noted that even if the applicant were to interpret claim 1 in such a manner as to enable him to allege that their subject matter were formally novel, based on non-substantial differences between the features of these claims and those disclosed in documents D1-D2, the subject matter of claim 1 would still not involve an inventive step(Articles 33(1) and 33(3) PCT). Especially as these documents address the same technical problem and disclose the same type of solution as claimed by the applicant.

3 INDEPENDENT CLAIMS 19,26,29,36 AND 39

Independent claims 19,26,29,36 and 39 are switch, protocol and endstation formulations of the method of claim 1. As a consequence the same reasoning applies as for claim 1. Therefore the subject-matter of claims 19,26,29,36 and 39 is not new in the sense of Article 33(2) PCT

4 DEPENDENT CLAIMS 2-18,27,28,30-35,37,38,40-47

Dependent claims 2-18,27,28,30-35,37,38,40-47 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT). Details can be found in the cited sections of D1-D3 in the search report.

Re Item VIII

Certain observations on the international application

Although claims 19 and 36 have been drafted as separate independent "signalling protocol" claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought or in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness and as such do not meet the requirements of Article 6 PCT.

The same reasoning applies, mutatis mutandis, to independent "switch" claims 26 and 29.